

PLANNING & PROGRAMMING DIVISION
PLANNING RESEARCH SECTION
TRAFFIC ANALYSIS UNIT

TAU 3451-C

T.H. 94

S.P. 8282-01

$\frac{1}{4}$ Mi. E. of Jct. T.H. 494-694

to St. Croix River

Prepared: February, 1965

MINNESOTA HIGHWAY DEPARTMENT

U.S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

DEPARTMENT Highway

STATE OF MINNESOTA

Office Memorandum

TO : T. S. Thompson

DATE: February 2, 1965

FROM : Johan Nygaard

SUBJECT: T.H. 94, $\frac{1}{4}$ Mile East of Junction T.H. 494,
694 to St. Croix River, S.P. 8282-01.

This report is transmitted in response to your December 22, 1964 request for 1989 traffic estimates for the project location shown on the map on page 2.

For each segment numbered on the index map on page 3, the following data are tabulated on the forms on pages 4 through 7:

- a. Vehicle Type Distribution
- b. Total ADT
- c. Total Heavy Commercial ADT
- d. Total DHV Without Directional Distribution
- e. Directional Distribution of DHV

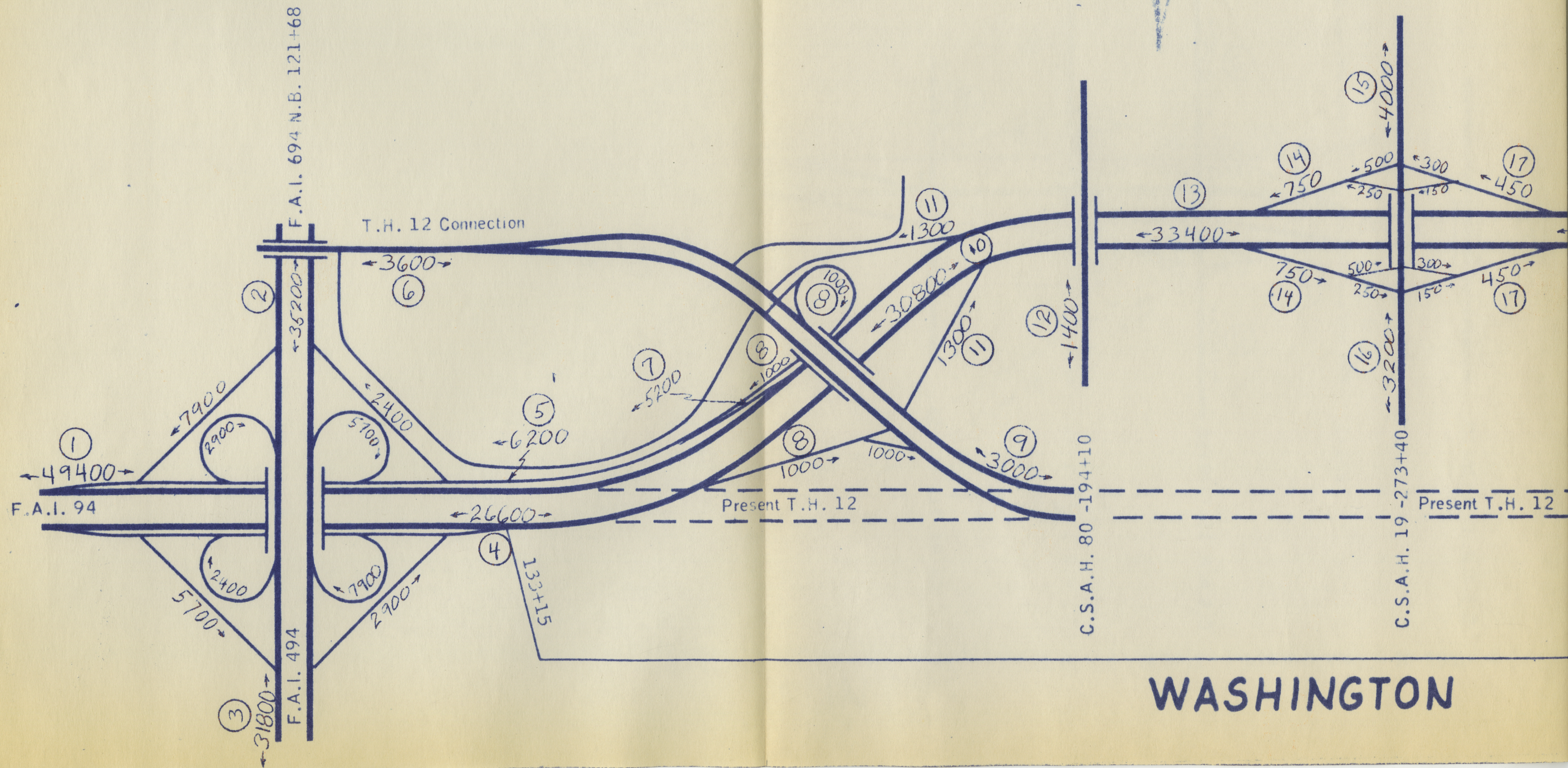
Segment 1, having the highest 1989 ADT, has a 1962 ADT of 12000 for the parallel location of present T.H. 12.

Basic data, method, and assumptions are presented on page 8.

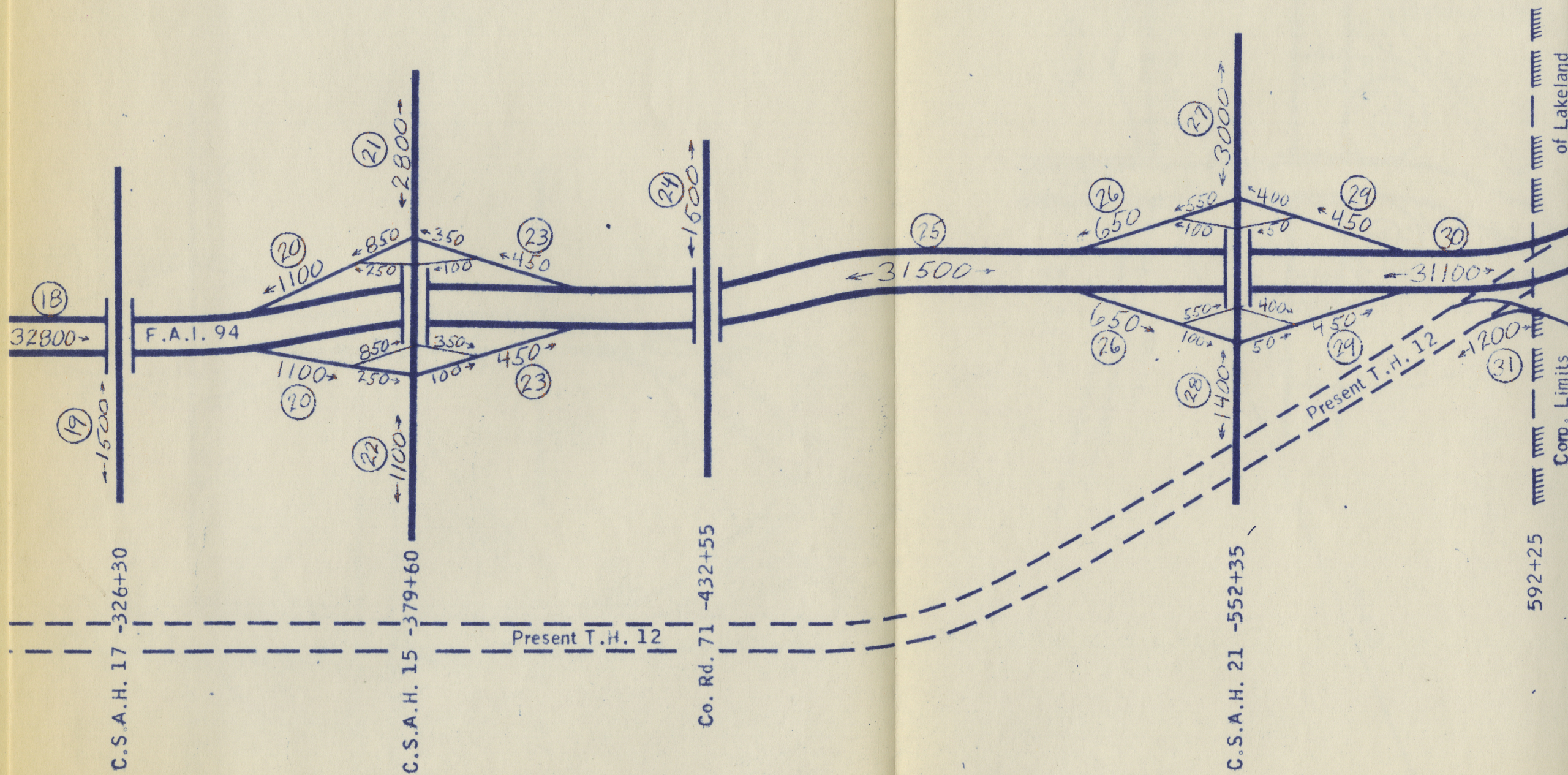
This request was initiated by B. L. Warzala for L. Luhrsen in Geometrics.

Johan Nygaard

STATE OF MINNESOTA
DEPARTMENT OF HIGHWAYS
WORK MAP



WASHINGTON



S.P. 8282-01 A.J. 50-022 9.42 Mi.

COUNTY

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1989 PART 1 OF 4

FOR

T.H. 94 S.P. 8282-01 LENGTH 9.42 MILES
COUNTY Washington LOCATION 1/4 Mi. E. of Jct. T.H. 494,694
to St. Croix River

BASED ON

1989 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
0	44417	32791	29309	23161	5539	3293	4602	937	2791	26826	1188
1	1583	819	976	905	210	115	178	32	95	1051	42
2	714	560	553	360	84	52	70	14	42	416	19
3	267	106	105	190	44	14	40	4	12	226	5
4	463	255	266	356	83	24	80	3	12	433	9
5	1655	445	426	1464	200	80	192	8	38	1648	29
6	301	224	165	164	40	22	38	2	10	200	8
TOTAL ADT	49400	35200	31800	26600	6200	3600	5200	1000	3000	30800	1300
TOTAL H. COMM. ADT	4983	2409	2491	3439	661	307	598	63	209	3974	112
TOTAL DHV	7755	4893	4229	2940	713	418	598	150	328	3388	195
DIRECTIONAL DISTRIBUTION	70-30	60-40	65-35	65-35	100-0	60-40	100-0	100-0	60-40	60-40	100-0

* VEHICLE TYPE CODE

0= PASSENGER CARS AND 4 TIRE TRUCKS
1= SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2= SINGLE UNIT-3 AXLE TRUCKS
3= TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
4= TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5= TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6= BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1989 PART 2 OF 4

FOR

T.H. 94 S.P. 8282-01 LENGTH 9.42 MILES
COUNTY Washington LOCATION 1/4 Mi. E. of Jct. T.H. 494,694
to St. Croix River

BASED ON

1989 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 12 THROUGH 22 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER										
	12	13	14	15	16	17	18	19	20	21	22
0	1274	29216	669	3635	2927	399	28676	1369	980	2501	972
1	69	1140	37	161	127	23	1112	80	73	185	73
2	26	450	29	120	79	17	426	24	32	81	32
3	3	238	1	7	6	1	238	5	2	3	3
4	4	450	2	11	8	2	450	5	4	8	7
5	8	1700	4	22	18	3	1698	5	4	8	7
6	16	206	8	44	35	5	200	12	5	14	6
TOTAL ADT	1400	33400	750	4000	3200	450	32800	1500	1100	2800	1100
TOTAL H. COMM. ADT	126	4184	81	365	273	51	4124	131	120	299	128
TOTAL DHV	245	3778	105	528	425	79	3726	262	156	392	154
DIRECTIONAL DISTRIBUTION	60-40	60-40	100-0	55-45	70-30	100-0	60-40	60-40	100-0	60-40	60-40

* VEHICLE TYPE CODE

0= PASSENGER CARS AND 4 TIRE TRUCKS
1= SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2= SINGLE UNIT-3 AXLE TRUCKS
3= TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
4= TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5= TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6= BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1989 PART 3 OF 4

FOR

T.H. 94 S.P. 8282-01 LENGTH 9.42 MILES
 COUNTY Washington LOCATION $\frac{1}{2}$ Mi. E. of Jct. T.H. 494, 694
to St. Croix River

BASED ON

1989 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 23 THROUGH 33 AS
 DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	23	24	25	26	27	28	29	30	31	32	33
0	398	1374	27512	579	2679	1249	402	27158	1080	1751	4936
1	30	80	1026	43	198	92	30	1000	70	93	611
2	13	24	388	19	87	41	13	376	20	25	95
3	1	3	236	1	3	1	1	236	5	3	19
4	2	4	446	2	9	5	1	444	5	9	40
5	2	3	1694	2	9	5	1	1692	5	16	89
6	4	12	198	4	15	7	2	194	15	3	10
TOTAL ADT	450	1500	31500	650	3000	1400	450	31100	1200	1900	5800
TOTAL H. COMM. ADT	52	126	3988	71	321	151	48	3942	120	149	864
TOTAL DHV	63	262	3540	91	420	210	79	3516	180	234	1201
DIRECTIONAL DISTRIBUTION	100-0	60-40	60-40	100-0	55-45	55-45	100-0	60-40	60-40	100-0	60-40

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
 2 = SINGLE UNIT-3 AXLE TRUCKS
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
 6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1989 PART 4 OF 4

FOR

T.H. 94 S.P. 8282-01 LENGTH 9.42 MILES
 COUNTY Washington LOCATION $\frac{1}{2}$ Mi. E. of Jct. T.H. 494, 694
to St. Croix River

BASED ON

1989 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 34 THROUGH 37 AS
 DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	34	35	36	37							
0	7000	1558	26772	270							
1	403	88	990	10							
2	79	23	372	9							
3	13	3	236	1							
4	20	9	444	2							
5	72	16	1692	3							
6	13	3	194	5							
TOTAL ADT	7600	1700	30700	300							
TOTAL H. COMM. ADT	600	142	3928	30							
TOTAL DHV	1349	318	3684	45							
DIRECTIONAL DISTRIBUTION	60-40	100-0	60-40	60-40							

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
 2 = SINGLE UNIT-3 AXLE TRUCKS
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
 6 = BUSES AND TRUCKS WITH TRAILERS

BASIC DATA, METHOD, AND ASSUMPTIONS

The 1989 HCADT, VTD, and DHV estimates for segments 1 through 18 are attendant to the 1989 ADT transmitted in TAU 370, January, 1965.

The basis for the 1989 ADT for segments 19 through 37 was the reassignment of local traffic determined from the 1989 ADT transmitted in TAU 3451-B, October, 1964. Present T.H. 12 would serve primarily local traffic and would have travel characteristics similar to the frontage roads shown in TAU 3451-B, October, 1964.

The 1989 HCADT, VTD, and DHV estimates are based on the same data explained in TAU 3451-B.